

PATENT FOR AN INVENTION

INSTITUT FRANÇAIS DU PÉTROLE

PROCESS OF DESULPHURIZING GASOLINE COMPRISING
DESULPHURIZATION OF THE HEAVY AND INTERMEDIATE FRACTIONS
RESULTING FROM FRACTIONATION INTO AT LEAST THREE CUTS

Inventors: Quentin DEBUSSCHERT, Blaise DIDILLON,
Jean Luc NOCCA and Denis UZIO

ABSTRACT

The invention relates to a process of producing gasoline with a low sulphur content from a feedstock containing sulphur. This process comprises at least one step a1 of selectively hydrogenating the diolefins and acetylenic compounds, at least one separation of the gasoline (step b) obtained at step a1 into at least three fractions, at least one step c1 of treating the heavy gasoline separated at step b on a catalyst enabling the unsaturated sulphur compounds to be at least partially decomposed or hydrogenated and at least one step d to remove the sulphur and nitrogen from at least one intermediate fraction, followed by catalytic reforming.